

1) VSC40HD/FS (REQUIRES COMPUTER AND MONITOR)

Comprising:

VSC40HD IMAGING SYSTEM AND BASIC LIGHT SOURCES (VSC40HD)

- CMOS CCD colour/monochrome IR sensitive camera with zoom lens 1920 x 1080, 2M pixel
 - fields of view 9.0 x 5.8mm to 146 x 93mm on a 24" monitor
 - up to x50 Optical or x100 lossless digital magnification on a 24" monitor
 - mirror image facility
 - incident IR and visible light source, 4 x 12.8W
 - transmitted IR and visible light source, 4 x 12.8W
 - twin side light source 2 x 20W independently selectable positions (for imaging surface features i.e. intaglio print, embossings, indentations)
 - high intensity transmitted spot light 1 x 20W
 - UV light source (365nm), incident 2 x 6W (upgraded to 2 x 9W if Lighting Modules VSC40/EUV1, 2 or 3 are fitted)
 - co-axial light source 1W LED (If VSC40/13LED is selected this is upgraded to 3 x high power LEDs)
- Dimensions; W 370mm (14.5") x D 380mm (15") x H 360mm (14")

VSC SOFTWARE SUITE FOR VSC40HD (VSC40HD/SW)

SYSTEM SOFTWARE DETAILS & FEATURES

CAMERA AND HARDWARE CONTROL

- automatic or manual control of camera of contrast, brightness, gamma, Iris, integration
- on-screen optical magnification control, continuous and preset
- digital zoom
- control of light sources and filters using on-screen icons (can be disabled if manual control panel option is selected)

STORE, RETRIEVE & RECORD AS VIDEO:

- images may be saved as Bitmap, Jpeg, Jpeg 2000, TIF or PDF files, or copied into Microsoft Word
- ability to store and recall parameter settings (illumination, camera filter, integration time, magnification, contrast setting, etc), the system will automatically reset to specific conditions when requested without manual intervention
- Video capture of DOVD images. Playback of video synchronized to scanning of live image

CASEWORK MANAGEMENT:

- facility to organise case information, images, and full examination parameter settings

IMAGE AUTOMATION:

- Quick Check automatic analysis feature
- programmable automated examination of up to 195 different examination conditions with thumbnail images of each examination.

Images can be saved and printed. Applies to the VSC/40/FS model other variants will be less

- automatic searching of high intensity spot illumination and camera filter combinations to display highest contrast between IR fluorescent subject matter
- macro recording feature with recall of reference images

IMAGE ANNOTATION:

- measurement facilities (calibrated) for distance, angle and area measurement, calibrated grids & radius of a circular feature
- editable image annotation facilities (text and various shapes including arrows, lines, boxes and circles)

IMAGE ENHANCEMENT:

- image enhancement functions including Contrast, HSL, RGB, Filters, Equalization, FFT, Gamma correction, sharpen

IMAGE COMPARISON:

- image comparison facilities to compare split live and stored images side-by-side, superposition, subtraction and variable frequency strobing, inversion, 90 /180 deg rotation & mirror
- reference image can be positioned/rotated by mouse control
- facility to display entire live image and stored reference image side by side

OPTICAL CHARACTER READER (OCR):

- OCR module to read and verify ICAO codes on Passports, ID cards and visas

OTHER SOFTWARE FEATURES:

- IPI and ICI decoder
- latent Image Viewer
- barcode Reader
- pull out image gallery of all recent work allowing comparison with current and previous images
- range of viewing modes
- all functions operated via software using mouse and keyboard control (manual control selectable if manual control panel is selected)
- "back" button to go back step by step through certain previously performed functions
- lamp life monitoring facility
- interactive help tutorial software providing full interactive step by step tour of the system or individual light sources
- on screen operation manual

INTEGRATED DOCUMENT DATABASE SOFTWARE

(Keesing reference image archive and annual subscription offered separately)

Features include:

- displays document images with saved data.
- displays pages as thumbnails. Image under cursor is displayed as a larger image
- enables images to be rotated
- enables double page images to be split to show each page separately
- enables a live VSC® image to be displayed alongside an image from the Keesing database for comparison
- enables the operator to generate their own databases
- archives VSC® generated images, data and VSC® settings to a user generated database
- automatically resets VSC® to saved viewing parameters on image retrieval from a user generated database
- enables images, data and VSC® settings in one user's document database to be shared with other users

SOFTWARE UPDATES:

- VSC software suite updates for 2 years

NOTE: IF THE COMPUTER IS PURCHASED LOCALLY THEN IT SHOULD HAVE EITHER MINIMUM SPECIFICATION

Computer Desktop (Minimum Specification):

Mini Tower Configuration with full height expansion slots

Intel i3 processor minimum 3.0 GHz

4GB RAM

250 GB HDD

PCI-Express slot (Full height)

DVD RW Drive

6 x USB ports with a minimum of 1 x USB 2.0 ports

Network interface Integrated Gigabit (10/100/1000) via RJ45 connector

Min 256MB Graphics(on board or Card) capable of supporting a screen resolution of 1920x1200

Windows 7

Wired USB Optical Scroll Mouse

PCI EXPRESS HD INTERFACE CARD (VSC40HD/PCI)

- black magic intensity Pro HDMI and Analog HD/SD Editing Card

- min 2.6Ghz processor required

Computer Laptop (Minimum Specification):

- Processor: Intel® Core™ i7-2670QM @2.20GHz

- RAM: 6G Byte

- HDD: 500 Gbytes

- DVD writer

- Display: 17.3", 1600x900

- USB: 4 of which at least 1 must be USB3

- Windows 7 Pro 64-bit

(VSC40HD/BIS)

- blackmagic design, Intensity Shuttle USB3 capture device

- 1 x 1.5m RGB phono to phono video cables

- 1 x USB3 cable 1m

Note: Laptop will require an x58 based motherboard with onboard USB 3.0.

MULTI-ANGLE 13 x LED LIGHT MODULE (VSC40/13LED)

- electronically adjustable multiple LED light source arranged in horizontal and vertical arrays for the sequential imaging of DOVDs, OVDs, OVIs, holograms and kinegrams.

2 x LED's can be combined with visible incident light to increase colour temperature for improved image quality

STANDARD ACCESSORIES AND SPARE FUSES FOR VSC40 (VSC40/AC)

Comprising:

VSC400/LIC - Dust cover for VSC40 or VSC400 - 209-158-00 x 1

Screen clean - FEC130-588 x 1

VSC/PAPERWEIGHT - VSC Paper Weight - 180-063-04 x 2 Fan filter material - RS184-5129 x 1 pack of 5

3.15 Amp Anti-surge fuses - FEC112-3134 x 5

Accessory mirror assembly - 203-304-AS-00 (OVI mirror)
Mirror pouch (blue velvet) - MIRRORPOUCH

ANTI-STOKES ILLUMINATION MODULE (VSC40/AS)
- high intensity 740 - 1100nm broadband light source

INCIDENT SHORT WAVE UV LIGHT MODULE (VSC40/EUV1)
- UV-C incident light source (254nm), 2 x 6W lamps (Safety interlocked)

INCIDENT MEDIUM WAVE UV LIGHT MODULE (VSC40/EUV2)
- UV-B incident light source (313nm), 2 x 6W lamps (Safety interlocked)

TRANSMITTED LONG WAVE UV LIGHT MODULE (VSC40/EUV3)
- UV-A transmitted light source (365nm), 2 x 9W lamps

100W VISIBLE SPOT LIGHT MODULE (VSC40/MF100W)
- high intensity 100W. Single band pass filter, 400 - 680nm, 400 - 480nm, 400 - 540nm, 400 - 580nm, 450 - 580nm, 495 - 640nm, 520 - 640nm, 560 - 680nm, 620 - 740nm and 650 - 740nm

13 FILTER CAMERA FILTER MODULE (VSC40/RM3)
- 13 camera filters mounted in an internal motorised wheel, including 12 red and infrared high pass filters with thresholds at 570, 590, 610, 630, 645, 665, 695, 715, 735, 780, 850 and 1000nm and 1 x broadband visible pass filter 400 - 740nm

2) PCI EXPRESS HD INTERFACE CARD FOR DESKTOP VSC40/HD PC (VSC40HD/PCI)

PCI Express HD Video Capture Card 1080p30 – HDMI / DVI / VGA / Component Includes:

PCI Express Video Capture interface

Break-out cable

1 x 1.5m RGB Phono to Phono video cable

Link for full spec:

<http://uk.startech.com/AV/Converters/Video/PCI-Express-HD-Video-Capture-Card-1080p-HDMI-DVI-VGA-Component~PEXHDCAP>

3) COMPUTER FOR VSC40HD INCLUDING 24" MONITOR (VSC40HD/PENT)

Specification:

(NOTE: THIS IS A TOWER CONFIGURATION COMPUTER)

Computer (Minimum Specification):

Mini Tower Configuration with full height expansion slots

Intel i3 processor minimum 3.0 GHz

4GB RAM

250 GB HDD

PCI-Express slot (Full height)

DVD RW Drive

6 x USB ports with a minimum of 1 x USB 2.0 ports

Network interface Integrated Gigabit (10/100/1000) via RJ45 connector

Min 256MB Graphics(on board or Card) capable of supporting a screen resolution of 1920x1200
Windows 7 (64 bit)
Wired USB Optical Scroll Mouse
CD write-able discs 640MB (x10)
DVD write-able discs 4.7GB (x10)

Monitor:
- 24" Flat Screen TFT Color Monitor 1920x1200 resolution

4) Comprehensive training